U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

NRCS–ENG–375
02–85

PRELIMINARY GEOLOGIC INVESTIGATION OF DAM SITES

Sheet ___ of ___

Watershed _____ Subwatershed _____ Site no. _____ County _____ State _____

Location _____ Site group _____ Structure class _____ Fund class _____

Nearest post office _____ Landowner/operator _____

Drainage area: _____ sq. mi. _____ acres. Purpose(s) of structure _____

Embankment: Length _____ ft. Height _____ ft. Cubic yards _____ Est. storage capacity _____ ac. ft.

This investigation made by: Inspection of surface _____ Hand auger _____ Test pits _____ Other(specify) _____

Investigated by: _____ _____
Signature and Title Date

GENERAL GEOLOGY

Physiographic description _____ Geologic formation(s) _____

_____ Attitude: Strike _____ Dip _____

Direction of valley axis (downstream) _____ Steepness of abutments: Left _____ percent. Right _____ percent

Material of abutment and valley walls _____

_____

_____

Surficial deposits _____

_____

Faults, folds, joints, caverns, and slice areas (describe briefly): _____

_____

_____

Depths to and lithology of rock in foundation _____

_____

_____ Extractable minerals? _____ Depth to groundwater _____ Date _____

Leakage problems _____

EMERGENCY SPILLWAY

Best location: Left abutment _____ Right abutment _____ Other _____

Estimated excavation: Rock _____ yds.; Common _____ yds.; Suitable for fill? _____ Type _____ (GC. CL. etc.)

Erodibility of control section _____ (high, medium, low, or very low) Erodibility of exit channel _____ (high, medium, low, or very low)

STREAM OR OUTLET CHANNEL

Description: width _____ ft.; Depth _____ ft.; Bed material _____ D_{50} _____ in. D_{75} _____ in.

Channel: Scouring _____ Aggrading _____ Stable _____; Rock _____; Banks: Eroding _____ Stable _____

Remarks _____

(continued on next page)

BORROW AREAS

No. _____ Location _____ Direction from dam _____ Distance _____ Probable depth _____ Area _____

Cubic yards available _____ Description of material _____

_____

Description of materials underlying borrow area _____

_____ Depth of water _____ Are salts or dispersed soils present? _____

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No. _____ Location _____ Direction from dam _____ Distance _____ Probable depth _____ Area _____

Cubic yards available _____ Description of material _____

_____

Description of materials underlying borrow area _____

_____ Depth of water _____ Are salts or dispersed soils present? _____

SUMMARY OF FINDINGS, INTERPRETATIONS, AND CONCLUSIONS